

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): An apparatus for broadcasting an RF signal comprised of analog FM and digital signals and comprising:

[an analog FM source for providing an analog FM signal;]

[a digital source for providing a digital signal;]

a splitter that receives a said analog FM signal for splitting [the] said FM signal into a fractional portion and remainder portion;

a summer for combining said fractional portion with a received said digital signal to provide a first combined signal;

a main FM transmitter for amplifying said remainder portion to provide an amplified FM signal;

a digital transmitter for amplifying said first combined signal to provide an amplified combined signal; and

a combiner that combines said amplified FM signal and said amplified combined signal to provide a composite RF signal to be broadcasted.

Claim 2 (Original): An apparatus as set forth in claim 1 including a phase adjuster located intermediate said splitter

and said summer for adjusting the phase of said fractional portion.

Claim 3 (Original): An apparatus as set forth in claim 2 wherein said phase adjuster is manually adjustable.

Claim 4 (Original): An apparatus as set forth in claim 2 wherein said combiner is signal coupler having a coupling coefficient in the range from about -3dB to about -9dB.

Claim 5 (Original): An apparatus as set forth in claim 4 wherein said adjuster is manually adjustable.

Claim 6 (Original): An apparatus as set forth in claim 2 wherein said combiner is a signal coupler having a coupling coefficient on the order of around -5dB.

Claim 7 (Original): An apparatus as set forth in claim 6 wherein said adjuster is manually adjustable.

Claim 8 (Currently Amended): An apparatus as set forth in claim 1 wherein [said digital source is an IBOC source and] said received digital signal is an IBOC digital signal.

Claim 9 (Original): An apparatus as set forth in claim 8 including a phase adjuster located intermediate said splitter and said summer for adjusting the phase of said fractional

Claim 10 (Original): An apparatus as set forth in claim 9 wherein said adjuster is manually adjustable.

Claim 11 (Original): An apparatus as set forth in claim 8 wherein said combiner is a signal coupler having a coupler coefficient on the order of about -3dB to about -9dB.

Claim 12 (Original): An apparatus as set forth in claim 11 wherein said adjuster is manually adjustable.

Claim 13 (Original): An apparatus as set forth in claim 8 wherein said combiner is a signal coupler having a coupling coefficient on the order of about -5dB.

Claim 14 (Original): An apparatus as set forth in claim 13 wherein said adjuster is manually adjustable.

Claim 15 (Currently Amended): An apparatus for broadcasting an RF signal comprised of analog FM and digital signals comprising:

[an analog FM source for providing an analog FM signal;]

[a digital source for providing a digital signal;]

a splitter that receives a said FM signal for extracting a fractional portion of said FM signal;

a summer for combining said fractional portion
[and] with a received said digital signal to provide a first
combined signal;

a main FM transmitter amplifying a remainder
portion of said FM signal less said fractional portion and
provides an amplified FM signal;

a digital transmitter for amplifying said first
combined signal to provide an amplified combined signal; and

a combiner that combines said amplified FM
signal and said amplified combined signal to provide a
composite RF signal to be broadcast.

Claim 16 (Currently Amended): A method for broadcasting
an RF signal comprised of analog FM and digital signals
including the steps of:

[providing] receiving an analog FM signal;

[providing] receiving a digital signal;

extracting a fractional portion of said FM
signal;

combining said fractional portion with said
digital signal;

amplifying the FM signal portion remaining
after said fractional portion has been extracted to provide an
amplified FM signal;

amplifying said first combined signal to
provide an amplified combined signal; and

combining said amplified FM signal with said amplified combined signal to provide a composite RF signal to be broadcast.

Claim 17 (Original): A method as set forth in claim 16 including the step of adjusting the phase of said fractional portion.

Claim 18 (Original): A method as set forth in claim 17 including the step of manually adjusting the phase of said fractional portion.

Claim 19 (Original): A method as set forth in claim 16, wherein said digital signal is an IBOC signal.

Claim 20 (Original): A method as set forth in claim 19 including the step of adjusting the phase of said fractional portion.